



**Career Clusters**

**WILLIAMS BAY HIGH SCHOOL**  
16 Career Clusters

# The 16 Career Clusters

Below is a list and short summary of the 16 Career Clusters. More detailed information can be found on the following pages.

Career Cluster	Description
 <p><b>A</b>griculture, Food &amp; Natural Resources</p>	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
 <p><b>A</b>rchitecture &amp; Construction</p>	Careers in designing, planning, managing, building and maintaining the built environment.
 <p><b>A</b>rts, A/V Technology &amp; Communications</p>	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
 <p><b>B</b>usiness Management &amp; Administration</p>	Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.
 <p><b>E</b>ducation &amp; Training</p>	Planning, managing and providing education and training services, and related learning support services.
 <p><b>F</b>inance</p>	Planning, services for financial and investment planning, banking, insurance, and business financial management.
 <p><b>G</b>overnment &amp; Public Administration</p>	Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.
 <p><b>H</b>ealth Science</p>	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

## The 16 Career Clusters

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Career Cluster	Description
	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>



# Agriculture & Natural Resources

## DO YOU HAVE AN INTEREST IN:

### Animals

- ◆ Working with sick or injured animals
- ◆ Working with companion animals like dogs and cats
- ◆ Inspecting and grading livestock food products
- ◆ A medical field
- ◆ Marine biology

### Plants

- ◆ Study plants and their growth
- ◆ Use genetic engineering to improve crops
- ◆ Designing landscapes for homes or businesses
- ◆ Developing new plants or modifying existing ones
- ◆ What plants need to grow successfully

### Natural Resources

- ◆ Native fish and their aquatic habitats
- ◆ Forest ecosystems
- ◆ Preservation of endangered species
- ◆ Conserve soil and water for farms

### Foods

- ◆ Discover new food sources
- ◆ Analyze food content
- ◆ Designing new food and flavors
- ◆ How science is used to process your food
- ◆ Chemistry and its application to food

### PATHWAYS IN THIS CLUSTER

- ◆ Food Products and Processing Systems
- ◆ Plant Systems
- ◆ Animal Systems
- ◆ Natural Resource Systems
- ◆ Power, Structural & Technical Systems
- ◆ Environmental Service Systems
- ◆ Agribusiness Systems

## Agriculture & Natural Resources

*The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.*

### RECOMMENDED COURSES BY PATHWAY

#### Food Products and Processing Systems

Biology (Any level)  
 Chemistry (Any level)  
 Foods for Today  
 Foods Around the World  
 Introduction to Agriculture Sciences\*  
 Principles of Agriculture\*  
 Agriculture Science II\*  
 Biotechnology\*

#### Plant Systems

Biology  
 Chemistry  
 Intro to Forestry\*  
 Intro to Ag Sciences\*  
 Principles of Agriculture\*  
 Biotechnology\*  
 Genetics\*

#### Animal Systems

Biology  
 Chemistry  
 Veterinary Science\*  
 Intro to Ag Sciences\*  
 Principles of Agriculture\*  
 Biotechnology\*  
 Animal Science\*

#### Natural Resource System

Biology  
 Chemistry  
 Intro to Ag Sciences\*  
 Biotechnology\*  
 Genetics\*

\*Online Course Option

# Career Options — Agriculture & Natural Resources

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Bee Keeper	Fisherman	Nursery Worker	Stable Worker
Crop Sprayer	Landscape Laborer	Pet Groomer	Vet Hospital Worker
Farm Worker	Logger	Pet Shop Workers	Butchers and Meat Cutters

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Arborist	Chemical Technician	Forestry Technician	Quality Food Control Specialist
Animal Control Officer	Crop &/Animal Farmer	Golf Course Manager	Veterinary Technician
Animal Nutritionist	Environmental Technician	Greenhouse Manager	Waste Water Technician
Bio-Tech Lab Technician	Farrier	Horticulturist	
Cheese Maker	Fish & Game Officer	Landscape Designer	

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Agricultural Commodities Broker	Animal Psychologist	Food Scientist	Marine Biologist	Toxicologist
Agricultural Economist	Animal Scientist	Forester	Soil Geologist	USDA Inspector
Agricultural Educator	Biochemist	Game Warden	Park Naturalist	Veterinarian
Agricultural Engineer	Botanist	Geneticist	Plant Pathologist	Wildlife Biologist
Agricultural Sales & Communications	Conservation Scientist	Greenhouse Operator	Soil Scientist	Zoologist
Agricultural Banker	Entomologist	Landscape Architect		

## Common Core Classes

- ◆ Algebra II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Anatomy & Physiology
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*

## Elective Courses

- ◆ 2 Years World Language
- ◆ Environmental Science
- ◆ Woodworking
- ◆ Metals
- ◆ Intro to Tech
- ◆ Small Engines
- ◆ Accounting

## RECOMMENDED COURSES BY PATHWAY

### Power, Structural, & Technical Systems

Electronics Coursework  
Metals Coursework  
Woodworking  
Intro to Technical Ed  
Small Engines  
Intro to Agriculture Sciences\*  
Engineering & Technology\*  
IT & Manufacturing Explorations\*

### Environmental Service Systems

Environmental Science  
Biology  
Chemistry  
Intro to Agriculture Sciences\*  
Biotechnology\*  
Genetics\*

### Agribusiness Systems

Accounting  
Biology  
Chemistry  
Intro to Business/Marketing\*  
Intro to Agriculture Sciences\*  
Biotechnology\*  
Concepts in Agriculture\*





## Architecture & Construction

*Careers in designing, managing, building, and maintaining the built environment.*

# Architecture & Construction

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Read and follow blueprints and/or instructions
- ◆ Picture in my mind what a finished product looks like

### Work with my hands:

- ◆ Perform work that requires precise results
- ◆ Solve technical problems
- ◆ Visit and learn from beautiful, historic, or interesting buildings
- ◆ Follow logical, step-by-step procedures

### Personal Qualities that describe me:

- ◆ Curious
- ◆ Good at following directions
- ◆ Pay attention to details
- ◆ Good at visualizing possibilities
- ◆ Patient and persistent

### School Subjects that I like:

- ◆ Math
- ◆ Drafting
- ◆ Physical Science
- ◆ Construction Trades
- ◆ Electrical Trades/Heat, Air Conditioning and Refrigeration/  
Technology Education

## PATHWAYS IN THIS CLUSTER

- ◆ Design/Pre-Construction
- ◆ Construction
- ◆ Maintenance/Operations

## RECOMMENDED COURSES BY PATHWAY

### Design/Pre-Construction

Building Construction  
 Woodworking  
 Advanced Woodworking  
 Intro to Technical Education  
 Metals Coursework  
 Art Coursework  
 Interior Design\*  
 Green Design & Technology\*  
 Mechanical & Architectural Drafting\*  
 Engineer Design\*  
 Pre-Engineering\*

### Construction

Building Construction  
 Woodworking  
 Advanced Woodworking  
 Intro to Technical Education  
 Metals Coursework  
 Mechanical & Architectural Drafting\*  
 Engineer Design\*

### Maintenance/Operations

Building Construction  
 Woodworking  
 Advanced Woodworking  
 Intro to Technical Education  
 Mechanical & Architectural Drafting\*  
 Intro to Manufacturing\*  
 Lean Manufacturing & Automation\*  
 Intro to Renewable Tech\*

\*Online Course Option

# Career Options — Architecture & Construction

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Construction Laborer	Grading & Level Machine Operator	Heavy Equipment Operator
Construction Worker Helper	Groundskeeper and Gardener	Roofer
Fence Builder	Highway Maintenance Worker	Tile Setter

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

HVAC Technician	Tile setter	Civil Engineering Technician	Cement Mason	Plumber
Architectural Drafter	Glazier	Electrical Engineering Technician	Drywall Installer	
Bricklayer	Pipefitter	Electrician	Plasterer	

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Architect	C.A.D. Designer	Cost Estimator	Grounds Supervisor	Interior Design
Building Contractor	Civil Engineer	Electrical Engineer	Landscape Architect	

## Common Core Classes

- ◆ Algebra II
- ◆ Environmental
- ◆ Science
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Economics/AP Economics\*
- ◆ Physics/Honors Physics or AP Physics
- ◆ Psychology/AP Psychology
- ◆ Statistics/AP Statistics
- ◆ Pre-Calculus

## Elective Courses

- ◆ 2 Years World Language
- ◆ Art 2D
- ◆ Art 3D
- ◆ Physical Education
- ◆ Metals
- ◆ Woods



## Arts, A/V Technology & Communications

*Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.*

# Arts, A/V Technology & Communications

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Use my imagination to communicate new information to others
- ◆ Perform in front of others
- ◆ Read and write
- ◆ Play a musical instrument
- ◆ Perform creative, artistic activities
- ◆ Use video and recording technology
- ◆ Design brochures and posters

### Personal qualities that describe me:

- ◆ Creative and imaginative
- ◆ Good communication/good vocabulary
- ◆ Curious about new technology
- ◆ Relate well to feelings and thoughts of others
- ◆ Determined/tenacious

### School Subjects that I like:

- ◆ Art/Graphic design
- ◆ Music
- ◆ Speech and Drama
- ◆ Journalism/Literature
- ◆ Audiovisual Technologies

## PATHWAYS IN THIS CLUSTER

- ◆ Audio and Video Technology and Film
- ◆ Printing Technology
- ◆ Visual Arts
- ◆ Performing Arts
- ◆ Journalism and Broadcasting
- ◆ Telecommunications

## RECOMMENDED COURSES BY PATHWAY

### Audio and Video Technology and Film

Computer Applications  
Desktop Publishing  
Web Design & Multimedia Applications  
Intro to Photography  
Art Coursework  
Theater, Cinema & Film Production\*  
Digital Photography

### Printing Technology

Computer Applications  
Desktop Publishing  
Web Design & Multimedia Applications  
Art Coursework  
Digital Arts I & II\*

### Visual Arts

Art Basics  
Advanced Drawing  
Advanced Sculpture  
Art Metals  
Studio Art  
Advanced Ceramics  
Advanced Print Making  
All About Fabric  
Intro to Photography

\*Online Course Option



# Career Options — Arts, A/V Technology & Communications

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Floral Designer	Proofreader	Mural Painter
Food Stylist	Sign Designer/Painter	Photographer
Musician	Stained Glass	Pre-Press

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Animator	Communications Line Maintainers	Recording Technician	Potter
Bookbinder	Craft Artist	Taxidermist	Graphic Designer
Broadcast Technician	Prepress Technician	Public Relations Manager	Music Repair Technician
Caption Writer	Printing Press Operator	Sign Painter	Recording Technician

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Animator	Copy Editor	Set Designers	Architect
Artist	Dancer	Reporter	Interior Decorator
Cinematographer	Photographer	Illustrator	Art Teacher
Composer	Potter	Jeweler	Art Professor

### Common Core Classes

- ◆ AP English
- ◆ Algebra II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History

- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ Psychology

### Elective Courses

- ◆ 2 Years World Language
- ◆ Creative Writing
- ◆ Personal Finance
- ◆ Computer Applications
- ◆ All About Fabric
- ◆ Art Coursework

## RECOMMENDED COURSES BY PATHWAY

### Performing Arts

Senior Band  
 Concert Choir  
 Vocal Ensemble  
 Jazz Ensemble  
 Advanced Musicianship  
 Music & World Culture\*

### Journalism & Broadcasting

English 9, 10, 11, & 12  
 Creative Writing  
 CPRW  
 Web Design & Multimedia Applications  
 Public Speaking\*

### Telecommunications

English 9, 10, 11, 12  
 Math Classes  
 Computer Applications  
 Computer Science  
 Microcomputer Programming\*  
 Mobile Device App Programing\*  
 Web Programming\*  
 Public Speaking\*



# Business Management & Administration

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Perform routine, organized activities but can be flexible
- ◆ Work with numbers and detailed information
- ◆ Be the leader in a group
- ◆ Make business contact with people
- ◆ Work with computer programming
- ◆ Create reports and communicate ideas
- ◆ Plan my work and follow instructions without close supervision

### Personal qualities that describe me:

- ◆ Organized
- ◆ Practical and logical
- ◆ Patient
- ◆ Tactful
- ◆ Responsible
- ◆ Good communication/good vocabulary

### School Subjects that I like:

- ◆ Computer Applications/Business and Information Technology
- ◆ Accounting
- ◆ Math
- ◆ English
- ◆ Economics

### PATHWAYS IN THIS CLUSTER

- ◆ Administrative Support
- ◆ Business Information Management
- ◆ General Management
- ◆ Human Resource Management
- ◆ Operations Management
- ◆ Marketing & Communications

## Business Management & Administration

*Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.*

### RECOMMENDED COURSES BY PATHWAY

#### Administrative Support

Computer Applications  
Accounting  
Personal Finance  
CPRW  
Intro to Marketing & Business\*  
Business Law\*  
Business Leadership\*

#### Business Information Management

Computer Applications  
Accounting  
Personal Finance  
International Economics\*  
Business Law\*  
Business Leadership\*  
International Business\*  
Intro to Marketing & Business\*

#### General Management

Computer Applications  
Accounting  
Personal Finance  
CPRW  
Business Law\*  
International Economics\*  
International Business\*  
Entrepreneurship\*

#### Human Resources

Computer Applications  
Accounting  
Personal Finance  
Keyboarding  
CPRW  
Business Law\*  
Intro to Marketing\*  
Intro to Business\*  
Sociology

\*Online Course Option

# Career Options — Business Management & Administration

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Bank Teller	Meter Reader	Typist	Data Entry Clerk
Caterer	Sales Clerk	Human Resource Clerk	Mail Clerk
File Clerk	Telephone Operator	Hospital Admitting Clerk	Receptionist

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Accountant	Court Reporter	Tax Preparer	Small Business Owner
Administrative Assistant	Kennel Owner	Funeral Director	Management Trainee
Computer Operator	Stenographer	Industrial Clerk	Word Processor

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Accountant—CPA	Health Care Administrator	Theater Manager
Advertising Manager	Human Resource Manager	Travel Agency Manager
Art Director	Instrument Sales/Manufacturing	Musician's Agent
Business and Industry Consultant	Marketing Manager	Sales Representative
Event Planner	Marketing Music Jingle Writer	

## Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry, Physics & Biology (any level)
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Psychology

## Elective Courses

- ◆ 2 Years World Language
- ◆ Personal Finance
- ◆ Computer Applications
- ◆ Accounting

## RECOMMENDED COURSES BY PATHWAY

### Operations Management

Computer Applications  
Accounting  
Personal Finance  
International Economics\*  
Business Law\*  
Business Leadership\*  
Entrepreneurship\*  
Business Communications\*  
Economics\*

### Marketing & Communications

Computer Applications  
Accounting  
Personal Finance  
Creative Writing  
Art Coursework  
Intro to Marketing & Business\*  
Sports Entertainment & Business\*  
Marketing Principles\*



## Education and Training

*Planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.*

# Education & Training

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Communicate with different types of people
- ◆ Help others with their homework or to learn new things
- ◆ Go to school
- ◆ Direct and plan activities for others
- ◆ Handle several responsibilities at once
- ◆ Acquire new information
- ◆ Help people overcome their challenges

### Personal qualities that describe me:

- ◆ Friendly
- ◆ Decision Maker
- ◆ Helpful
- ◆ Innovative/Inquisitive
- ◆ Good listener

### School Subjects that I like:

- ◆ Language Arts
- ◆ Social Studies
- ◆ Math
- ◆ Science
- ◆ Psychology

### PATHWAYS IN THIS CLUSTER

- ◆ Administration & Administrative Support
- ◆ Professional Support Services
- ◆ Teacher/Training

## RECOMMENDED COURSES BY PATHWAY

**Administration & Administrative Support**  
 2 Years World Language  
 Computer Applications

**Professional Support Services**  
 2 Years World Language  
 Assistant Child Care Teacher  
 Early Childhood Education\*

**Teaching/Training**  
 2 Years World Language  
 Assistant Child Care Teacher  
 Psychology  
 Early Childhood Education\*

\*Online Course Option

## Career Options — Education & Training

### FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Aerobic Instructor	Library Assistant	Self Enrichment Teacher
Child Care Assistant	Dance Teacher	

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Computer Installation & Demonstration	Sign Language Interpreter	Library Technician
Preschool Teacher	Teacher Assistant	

### BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Apprenticeship Consultant	School Psychologist	School Counselor
Bilingual Educator	Secondary School Teacher	University Professor
Educational Administrator	Teacher of the Blind	Training Program Manager
Instructional Coordinator	Vocational Education Teacher	Elementary School Teacher
Kindergarten Teacher	Librarian	Special Education Teacher
Music Teacher	Speech-Language Pathologist	Adult Literacy Teacher
Music Therapist		

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry, Physics & Biology (any level)
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English

### Elective Courses

- ◆ 2 Years World Language
- ◆ Personal Finance
- ◆ Computer Applications
- ◆ Intro to Adult Life
- ◆ Art Coursework
- ◆ Music Classes





# Finance

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Work with numbers
- ◆ Work to meet a deadline
- ◆ Make predictions based on existing data
- ◆ Have a framework of rules by which to operate
- ◆ Analyze financial information and interpret it to others
- ◆ Handle money with accuracy and reliability
- ◆ Take pride in the way I dress and look

### Personal qualities that describe me:

- ◆ Trustworthy
- ◆ Orderly
- ◆ Self-confident
- ◆ Logical
- ◆ Methodical or efficient

### School Subjects that I like:

- ◆ Accounting
- ◆ Math
- ◆ Economics
- ◆ Banking/Financial Services
- ◆ Business Law

### PATHWAYS IN THIS CLUSTER

- ◆ Accounting
- ◆ Banking & Related Services
- ◆ Business Financial Management
- ◆ Insurance Services
- ◆ Securities and Investments

## Finance

*Planning and related services for financial investment planning, banking, insurance, and business financial management.*

### RECOMMENDED COURSES BY PATHWAY

#### Accountant

Computer Applications  
Accounting  
Personal Finance  
Intro to Marketing & Business\*  
International Economics\*\*  
Economics\*  
AP Microeconomics\*

#### Banking & Related Services

Computer Applications  
Accounting  
Personal Finance  
Business Law\*\*  
Intro to Marketing & Business\*  
Economics\*  
AP Microeconomics\*

#### Business Financial Management

Computer Applications  
Accounting  
Personal Finance  
Business Law\*\*  
Intro to Marketing & Business\*  
International Economics\*\*  
Economics\*  
AP Microeconomics\*

\*Online Course Option

\*\*Gateway Class

# Career Options — Finance

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Bill & Account Collector	Brokerage Clerk	Cashier	
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## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Accountant	Investigator and Adjustor	Claim Adjuster
Brokerage Clerk	Loan Officer	Financial Institution Manager
Insurance Agent		

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Accountant, CPA	Credit Analyst	Manager
Auditor	Credit Card Operations Manager	Economist
Actuary	Insurance Underwriter	Financial Advisor
Brokerage Clerk	Investment Advisor	Stockbroker
Business and Industry Consultant	Music Store Accountant	Real Estate Appraiser
Controller	School District Business	

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ Pre-Calculus

- ◆ CPRW
- ◆ AP English
- ◆ Physics or Honors Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*

### Elective Courses

- 2 Years World Language
- Accounting
- Personal Finance I & II
- Computer Applications
- Web Design & Multimedia Applications

## RECOMMENDED COURSES BY PATHWAY

### Insurance Services

- Computer Applications
- Accounting
- Personal Finance
- Business Law\*\*
- Intro to Marketing & Business\*
- Entrepreneurship\*
- Economics\*
- Business Communications\*

### Securities & Investment Planning

- Computer Applications
- Accounting
- Personal Finance
- Business Law\*
- Business Leadership\*
- Intro to Marketing & Business\*
- Entrepreneurship\*
- Economics\*



## Government & Public Administration

*Planning and executing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.*

# Government & Public Administration

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Be involved in politics
- ◆ Negotiate, defend, and debate ideas and topics
- ◆ Plan activities and work cooperatively with others
- ◆ Work with details
- ◆ Perform a variety of duties that may change laws
- ◆ Analyze information and interpret to others
- ◆ Travel and see things that are new to me

### Personal qualities that describe me:

- ◆ Good Communicator
- ◆ Competitive
- ◆ Service minded
- ◆ Well organized
- ◆ Problem solver

### School Subjects that I like:

- ◆ Government
- ◆ Language Arts
- ◆ History
- ◆ Math
- ◆ Foreign Language

## PATHWAYS IN THIS CLUSTER

- ◆ Governance
- ◆ National Security
- ◆ Foreign Services
- ◆ Planning
- ◆ Revenue and Taxation
- ◆ Regulation
- ◆ Public Management & Administration

## RECOMMENDED COURSES BY PATHWAY

### Governance

AP Government  
 AP U.S. History  
 Computer Applications  
 Accounting  
 AP English  
 CPRW  
 2 years World Language  
 Psychology  
 Introduction to Law\*  
 Business Law\*  
 Business Leadership\*  
 International Business\*

### National Security

AP Government  
 AP U.S. History  
 Computer Applications  
 2 years World Language  
 Introduction to Law\*  
 Intro to Criminal Justice\*  
 National Security\*

### Foreign Services

AP Government  
 AP U.S. History  
 Computer Applications  
 2 years World Language  
 International Economics\*  
 Business Leadership\*

### Planning

AP Government  
 AP U.S. History  
 Accounting  
 Computer Applications  
 2 years World Language  
 Introduction to Law\*\*

\*Online Course Option

# Career Options — Government & Public Administration

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Mail Carrier	Mail Handling Machine Operator	Postal Clerk
License Clerk	Drivers License Examiner	Infantry Forces

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Coroner	Association Executive	Infantry Forces
City Planning Aid	Postmaster	Special Forces
Building Inspector	Transportation Inspector	Title Examiner
Accountant		

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Accountant	Emergency Management Specialist	Legislator
Public Utilities Manager	Apprenticeship Consultant	Occ. Health & Safety Specialist
Aviation Security Specialist	Equal Opportunity Specialist	Political Scientist
City Manager	Infantry Officer	Special Operations Officer
Social Services Administrator	Dean of Students	Infantry Officer
Urban Planner	Lawyer	

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ Pre-Calculus
- ◆ AP English
- ◆ Physics or Honors Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*

### Elective Courses

- ◆ 2 Years World Language
- ◆ Computer Applications

## RECOMMENDED COURSES BY PATHWAY

### Revenue & Taxation

- AP Government
- AP U.S. History
- Accounting
- 2 years World Language
- Introduction to Business\*\*
- Business Leadership\*\*
- Intro to Marketing & Business\*

### Regulation/Public Management & Administration

- AP Government
- AP U.S. History
- Computer Applications
- 2 years World Language
- Accounting
- Psychology
- Business Leadership\*
- Introduction to Business\*



## Health Services

*Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.*

### RECOMMENDED COURSES BY PATHWAY

#### Therapeutic Services

Anatomy and Physiology  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 Psychology or AP Psychology  
 2 Years World Language  
 Medical Terminology\*  
 Medical Law, Ethics, and Professionalism\*  
 Healthcare Delivery System

#### Diagnostic Services

Anatomy and Physiology  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 Psychology or AP Psychology  
 2 Years World Language  
 Nursing Assistant Basic\*  
 Medical Terminology\*  
 Healthcare Customer Service\*

#### Health Informatics

Anatomy and Physiology  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 Psychology or AP Psychology  
 2 Years World Language  
 Medical Terminology  
 Healthcare Customer Service\*  
 Intro to the Health Record\*

\*Online Course Option

# Health Services

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Work under pressure
- ◆ Help sick people and animals
- ◆ Make decisions based on logic and information
- ◆ Participate in health and science classes
- ◆ Respond quickly and calmly in emergencies
- ◆ Work as a member of a team
- ◆ Follow guidelines precisely and meet strict standards of accuracy

### Personal qualities that describe me:

- ◆ Compassionate and caring
- ◆ Good at following directions
- ◆ Conscientious and careful
- ◆ Patient
- ◆ Good listener

### School Subjects that I like:

- ◆ Biological Sciences
- ◆ Chemistry
- ◆ Math
- ◆ Occupational Health classes
- ◆ Language Arts

### PATHWAYS IN THIS CLUSTER

- ◆ Therapeutic Services
- ◆ Diagnostic Services
- ◆ Health Informatics
- ◆ Support Services
- ◆ Biotechnology Research and Development



# Career Options — Health Services

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Certified Nursing Assistant	Clerk	Food Service Worker	Hospital Admitting
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## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Emergency Medical Technician	Surgical Technician	Dental Assistant	Registered Nurse
Home Health Aide	Translator and Interpreter	Dental Hygienist	Radiology Technologist
Massage Therapist	Ultrasound Technician	Dialysis Technician	
Physical Therapy Aide	Medical Assistant	Occupational Therapy Assistant	

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Athletic Trainer	Pharmacist	Podiatrist	Hemotherapist
Chiropractor	Primary Care Physician	Oral Surgeon	Statistician
Dentist	Psychiatrist	Registered Nurse	Music Therapist
Dietician	Surgeon	Nurse Practitioner	
Occupational Therapist	Geneticist	Anesthesiologist	

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW

- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ Anatomy & Physiology
- ◆ AP Economics\*

### Elective Courses

- ◆ 2 Years World Language
- ◆ AP Environmental Science
- ◆ All Performance Music Classes
- ◆ Personal Finance

## RECOMMENDED COURSES BY PATHWAY

### Support Services

Anatomy and Physiology  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 Psychology or AP Psychology  
 Algebra I & II  
 2 Years World Language  
 Medical Terminology  
 Healthcare Customer Service\*

### Biotechnology Research & Development

Anatomy and Physiology  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 Psychology or AP Psychology  
 2 Years World Language  
 Biotechnology\*  
 Medical Terminology\*



## Hospitality & Tourism

*Preparing individuals for employment in career pathways that relate to families and human needs such as restaurant and food/beverage services, lodging, travel, and tourism, recreation, amusement and attractions.*

### RECOMMENDED COURSES BY PATHWAY

#### Restaurant & Food/Beverage Services

Foods for Today  
 Foods Around the World  
 Prostart I & II  
 Personal Finance  
 Accounting  
 2 Years World Language  
 Business Law\*  
 Food Science\*  
 Entrepreneurship\*

#### Lodging

Foods for Today  
 Foods Around the World  
 Accounting  
 2 Years World Language  
 Business Law\*  
 Intro to Business\*  
 Advertising & Sales\*  
 Hospitality & Tourism\*

#### Travel & Tourism

Accounting  
 2 Years World Language  
 Computer Applications  
 Web Design & Multimedia  
 Applications  
 Art Coursework  
 Business Law\*  
 Intro to Business\*  
 Advertising & Sales\*  
 Hospitality & Tourism\*

#### Recreation, Amusements, & Attractions

Accounting  
 2 Years World Language  
 Physical Education Courses  
 Business Law\*  
 Entrepreneurship\*  
 Intro to Business\*  
 Advertising & Sales\*  
 Hospitality & Tourism\*

\*Online Course Option

# Hospitality & Tourism

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Investigate new places and activities
- ◆ Work with all ages and types of people
- ◆ Organize activities in which other people enjoy themselves
- ◆ Have a flexible schedule
- ◆ Help people make up their minds
- ◆ Communicate easily, tactfully, and courteously
- ◆ Learn about other cultures

### Personal qualities that describe me:

- ◆ Tactful
- ◆ Self-motivated
- ◆ Works well with others
- ◆ Outgoing
- ◆ Slow to anger

### School Subjects that I like:

- ◆ Language Arts/Speech
- ◆ Foreign Language
- ◆ Social Sciences
- ◆ Marketing
- ◆ Food Services

### PATHWAYS IN THIS CLUSTER

- ◆ Restaurants and Food/Beverage Services
- ◆ Lodging
- ◆ Travel & Tourism
- ◆ Recreation, Amusement & Attractions

## Career Options — Hospitality & Tourism

### FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Baggage Porter and Bellhop	Gaming Change Person & Booth Cashier	Janitor
Cake Decorator	Guide	Hotel Clerk
Concierge	Waiter/Waitress	Short Order Cook

### CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Club Manager	Taxidermist	Conference Planner
Translator (Interpreter)	Food Service Supervisor	Caterer
Household Manager	Concierge	Motel & Hotel Manager
Restaurant Cook/Chef	Recreation Director	Restaurant Manager

### BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Archivist	Musicians Agent	Theatre Manager
Coach	Park Ranger	Translator/Interpreter
Conservation Technician	Recreation Director	Zookeeper
Curator	Resort Manager	Historian

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*
- ◆ Psychology or AP Psychology

### Elective Courses

- ◆ 2 Years World Language
- ◆ Art Coursework
- ◆ Physical Education
- ◆ Music Courses



## Human Services

*Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.*

# Human Services

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Care about people, their needs, and their problems
- ◆ Participate in community services and/or volunteering
- ◆ Listen to other people's viewpoints
- ◆ Help people be at their best
- ◆ Work with people from preschool age to old age
- ◆ Think of new ways to do things
- ◆ Make friends with different kinds of people

### Personal qualities that describe me:

- ◆ Good communicator/good listener
- ◆ Caring
- ◆ Non-materialistic
- ◆ Uses intuition and logic
- ◆ Non-judgmental

### School Subjects that I like:

- ◆ Language Arts
- ◆ Psychology/Sociology
- ◆ Family and Consumer Science
- ◆ Finance
- ◆ Foreign Language

### PATHWAYS IN THIS CLUSTER

- ◆ Early Childhood Development & Services
- ◆ Counseling & Mental Health Services
- ◆ Family & Community Services
- ◆ Personal Care Services
- ◆ Consumer Services

## RECOMMENDED COURSES BY PATHWAY

### Early Childhood Development & Services

Personal Finance  
Intro to Adult Life  
2 Years World Language  
Psychology  
Sociology  
Assistant Child Care Teacher\*  
Early Childhood Education\*  
Real World Parenting\*

### Counseling & Mental Health Services

Intro to Adult Life  
Moving Out  
Personal Finance  
Psychology  
Sociology  
2 Years World Language  
Social Problems\*  
Personal Psychology\*  
Developmental Psychology\*

### Family & Community Services

Intro to Adult Life  
Moving Out  
Personal Finance  
2 Years World Language  
Social Problems\*  
Personal Psychology\*  
Developmental Psychology\*  
Health Careers\*

\*Online Course Option

# Career Options — Human Services

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Aerobic Instructor	Crossing Guard	Household Cook	Nanny
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## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Community Organization Worker	Embalmer	Cosmetologist
Child Care Assistant	Funeral Director	Institutional Cook
Nail Technician	Preschool Teacher	
Shoe Repairer	Skin Care Specialist	

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Dietician	Psychologist	School Counselor
Alcohol and Drug Counselor	Investment Advisor	Career Counselor
Liturgical Minister	Sociologist	Clergy
Social Worker	Financial Counselor	Music Therapy
Financial Counselor	Placement Counselor	Personal Counselor
Vocational Rehab Counselor	Religious Worker	Psychiatrist

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ Biology or AP Biology
- ◆ AP Government

- ◆ AP U.S. History
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ AP Economics\*

### Elective Courses

- ◆ 2 Years World Language
- ◆ Intro to Adult Life
- ◆ Personal Finance
- ◆ All Performance Music Classes

## RECOMMENDED COURSES BY PATHWAY

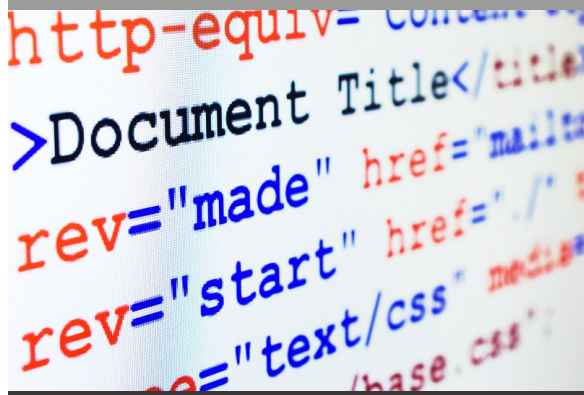
### Personal Care Services

- Intro to Adult Life
- Personal Finance
- 2 Years World Language
- Social Problems\*
- Personal Psychology\*
- Developmental Psychology\*
- Healthcare Delivery Systems\*
- Medical Law, Ethics, & Professionalism\*

### Consumer Services

- Intro to Adult Life
- Personal Finance
- Healthcare Customer Service\*
- Entrepreneurship\*
- Economics\*





## Information Technology

*Building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.*

### RECOMMENDED COURSES BY PATHWAY

#### Network Systems

Computer Applications  
Web Design and Multi Media Application  
Coding  
Computer Science  
Intro to Programming\*  
Microcomputer Programming\*  
Mobile Device App Programing\*  
Web Programming\*

\*Online Course Option

# Information Technology

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Work with computers
- ◆ Reason clearly and logically to solve complex problems
- ◆ Use machines, techniques, and processes
- ◆ Read technical materials and diagrams to solve technical problems
- ◆ Adapt to change
- ◆ Play video games and figure out how they work
- ◆ Concentrate for long periods without being distracted

### Personal qualities that describe me:

- ◆ Logical/Analytical thinker
- ◆ See details in the big picture
- ◆ Persistent
- ◆ Good concentration skills
- ◆ Precise and accurate

### School Subjects that I like:

- ◆ Math
- ◆ Science
- ◆ Computer Tech/Applications
- ◆ Communications
- ◆ Graphic Design

### PATHWAYS IN THIS CLUSTER

- ◆ Network Systems
- ◆ Information Support and Services
- ◆ Web and Digital Communications
- ◆ Programming and Software Development
- ◆ Consumer Services

#### Information Support & Services

Computer Applications  
Web Design and Multi Media Application  
Accounting  
Intro to Programming\*  
Microcomputer Programming\*  
Marketing\*  
Entrepreneurship\*

#### Web and Digital Media

Computer Applications  
Web Design and Multi Media  
Application  
Accounting  
Game Programming\*  
Java Programming\*  
Game Design\*  
Marketing\*

# Career Options — Information Technology

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Careers in this field require more than minimal experience and on-the-job training.

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Computer Support Specialist	Sound Manager	Tool Programmer
Computer Systems Analyst	Webmaster	Recording Engineer

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Scientific & Engineering Programmer	Software Engineer	Computer Programmer
Computer Engineer	Webmaster	Information Scientist
Computer Security Specialist	Video Game Designer	Illustrator
Computer Network Coordinator	Computer Systems Analyst	Animator
Medical & Scientific Illustrator		

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ Biology or AP Biology
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Psychology or AP Psychology

### Elective Courses

- ◆ 2 Years World Language
- ◆ CPRW
- ◆ 2-D Art Class

## RECOMMENDED COURSES BY PATHWAY

Programming & Software Development  
 Computer Applications  
 Web Design and Multi Media Application  
 Coding  
 Computer Science  
 Accounting  
 Microcomputer Programming\*  
 Mobile Device App Programing\*  
 Web Programming\*

### Consumer Services

Intro to Adult Life  
 Personal Finance  
 Healthcare Customer Service\*  
 Entrepreneurship\*  
 Economics\*



## Law, Public Safety, Corrections & Safety

*Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.*

# Law, Public Safety, Corrections & Security

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Work under pressure or in the face of danger
- ◆ Interact with other people
- ◆ Make decisions based on my own observations
- ◆ Be in positions of authority
- ◆ Respect rules and regulations
- ◆ Debate and win arguments
- ◆ Observe and analyze people's behavior

### Personal qualities that describe me:

- ◆ Adventurous
- ◆ Dependable
- ◆ Community-minded
- ◆ Decisive
- ◆ Optimistic

### School Subjects that I like:

- ◆ Language Arts
- ◆ Psychology/Sociology
- ◆ Government/History
- ◆ Law Enforcement
- ◆ First Aid/First Responder

## PATHWAYS IN THIS CLUSTER

- ◆ Correction Services
- ◆ Emergency & Fire Management Services
- ◆ Security & Protective Services
- ◆ Law Enforcement Services
- ◆ Legal Services

## RECOMMENDED COURSES BY PATHWAY

### Correction Services

CPRW  
 AP English  
 Algebra I & II  
 AP Government  
 AP U.S. History  
 Calculus or AP Calculus  
 Physics or AP Physics  
 Psychology or AP Psychology  
 Intro to Criminal Justice\*

### Emergency & Fire Management Services

CPRW  
 AP English  
 Algebra I & II  
 Chemistry/AP Chemistry  
 Biology or AP Biology  
 AP Government  
 AP U.S. History  
 Calculus or AP Calculus  
 Physics or AP Physics  
 Psychology

### Security & Protective Services

CPRW  
 AP English  
 Algebra I & II  
 Biology or AP Biology  
 AP Government  
 AP U.S. History  
 Calculus or AP Calculus  
 Physics or AP Physics  
 Psychology  
 Intro to Criminal Justice\*

\*Online Course Option

# Career Options — Law, Public Safety, Corrections & Security

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Correctional Officer	Parking Enforcement Officer	Crossing Guard
Dispatcher	Security Guard	

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Bailiff	Legal Secretary	Police Officer
Copyright Law	Musician Law	Fire Inspector
Court Reporter	Paralegal Assistant	Police Canine Trainer
Emergency Medical Technician	Park Ranger	Firefighter

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Adjudicator	Park Ranger	State Patrol Officer
Probation and Parole Officer	Arbitrator	Police Officer
FBI Agent	Fingerprint Examiner	Conservation Warden
Forensic Science Technician	Forensic Science Technician	Private Detective
Correctional Officer Supervisor	Judge	Judicial Law Clerk
Emergency Management Specialist	Lawyer	

### Common Core Classes

- ◆ Algebra II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ Anatomy & Physiology
- ◆ AP Economics\*

### Elective Courses

- ◆ 2 Years World Language
- ◆ Strength & Conditioning
- ◆ Physical Education Courses
- ◆ Photography
- ◆ All Performance Music Classes

## RECOMMENDED COURSES BY PATHWAY

### Law Enforcement Services

- CPRW
- AP English
- Algebra I & II
- Chemistry/AP Chemistry
- Biology or AP Biology
- AP Government
- AP U.S. History
- Calculus or AP Calculus
- Physics or AP Physics
- Psychology
- Exploring the Criminal Justice System\*

### Legal Services

- CPRW
- AP English
- Algebra I & II
- Chemistry/AP Chemistry
- Biology or AP Biology
- AP Government
- AP U.S. History
- Calculus or AP Calculus
- Physics or AP Physics
- Psychology



## Manufacturing

*Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.*

# Manufacturing

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Work with my hands and learn that way
- ◆ Put things together
- ◆ Do routine, organized and accurate work
- ◆ Perform activities that produce tangible results
- ◆ Apply math to work out solutions
- ◆ Use hand and power tools and operate equipment/machinery
- ◆ Visualize objects in three dimensions from flat drawings

### Personal qualities that describe me:

- ◆ Practical
- ◆ Observant
- ◆ Physically active
- ◆ Step-by-step thinker
- ◆ Coordinated

### School Subjects that I like:

- ◆ Math-Geometry
- ◆ Chemistry
- ◆ Trade and Industry courses
- ◆ Physics
- ◆ Language Arts

### PATHWAYS IN THIS CLUSTER

- ◆ Production
- ◆ Manufacturing Production Process Development
- ◆ Maintenance, Installation & Repair
- ◆ Quality Assurance
- ◆ Logistics & Inventory Control
- ◆ Health, Safety & Environmental Assurance

## RECOMMENDED COURSES BY PATHWAY

### Production/Mfg. Production Process Development/ Maintenance, Installation & Repair/Quality Assurance/Logistics & Inventory Control

Woods  
Advanced Woods  
Metals  
Advanced Metals  
Building Construction  
Computer Applications

### Health, Safety & Environmental Assurance

Environmental Science  
Health Careers\*  
Woods  
Advanced Woods  
Metals  
Advanced Metals  
Building Construction

\*Online Course Option



# Career Options — Manufacturing

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Apparel & Home Furnishings Dyer	Oil Well Driller	Production Assembler
Brush Painter	Order Filler	Tire Builder
Engraver	Hand Worker	

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Apparel Pattern Maker	Locksmith	Technician
Combination Welder	Musical Instrument Repairer	Electrical Engineering Technician
Computer Technician	Quality Control Technician	Industrial Engineering Technician
Electrical Appliance Servicer	Tool and Die Maker	Machinist
Electric Motor Technician		

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Communications Operations Manager	Mechanical Engineer	Equipment Manufacturing
Electrical Engineer	Musical Instrument Design	Electronic Engineer
Occupational Health and Safety Inspector	Engineering Manager	Production Supervisor
Environmental Engineer	Industrial Engineer	Stage and Sound Engineer

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ Anatomy & Physiology

### Elective Courses

- ◆ Environmental Science
- ◆ Woodworking/Adv. Woodworking
- ◆ Intro to Technical Education
- ◆ Accounting



## Marketing

*Planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications and market research.*

### RECOMMENDED COURSES BY PATHWAY

## Marketing

### INTEREST & ABILITIES

#### Activities that describe what I like to do:

- ◆ Shop and go to the mall
- ◆ Be in charge
- ◆ Make displays and promote ideas
- ◆ Give presentations and enjoy public speaking
- ◆ Persuade people to buy products or to participate in activities
- ◆ Communicate my ideas to other people
- ◆ Take advantage of opportunities to make extra money

#### Personal qualities that describe me:

- ◆ Enthusiastic
- ◆ Competitive
- ◆ Creative
- ◆ Self-motivated
- ◆ Persuasive

#### School Subjects that I like:

- ◆ Language Arts
- ◆ Math
- ◆ Business Education/Marketing
- ◆ Economics
- ◆ Computer Applications

#### PATHWAYS IN THIS CLUSTER

- ◆ Marketing Communications
- ◆ Marketing Management
- ◆ Marketing Research
- ◆ Merchandising
- ◆ Professional Sales

#### Marketing Communications

Computer Applications  
 Desktop Publishing  
 Web Design & Multimedia Applications  
 Accounting  
 Marketing Principles\*  
 Advertising & Sales\*  
 Business Communications\*  
 Entrepreneurship\*

#### Marketing Management

Computer Applications  
 Desktop Publishing  
 Web Design & Multimedia Applications  
 Accounting  
 Marketing Principles\*  
 Intro to Business\*  
 Business Communications\*  
 Entrepreneurship\*

\*Online Course Option

# Career Options — Marketing

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Antique/Collectible Dealer	Counter Clerk	Street Vendor
Cahier	Customer Service Representative	Telemarketer
Classified Ad Clerk	News Vendor	Wedding Planner

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Advertising Layout Designer	Auto Salesperson	Real Estate Agent
Advertising Sales Representative	Buyer	Auctioneer
Instrument Sales		

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Advertising Account Executive	Public Relations Manager	Insurance Agent
Advertising Manager	Purchasing Agent	Purchasing Manager
Business Agent	Research Analyst	Market Research Analyst
Public Relations Practitioner	Marketing Manager	Real Estate Broker

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus

- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*

### Elective Courses

- ◆ 4 Years World Language
- ◆ Photography
- ◆ All About Fabric

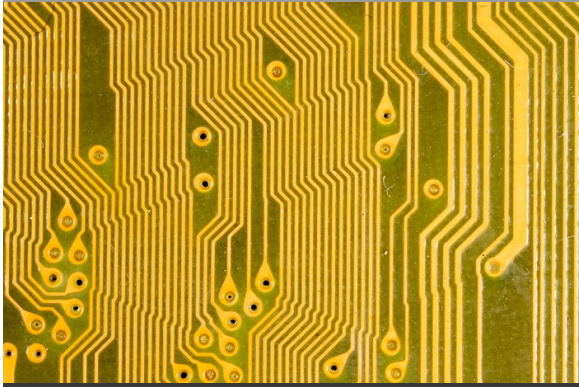
## RECOMMENDED COURSES BY PATHWAY

### Marketing Research

Computer Applications  
 Desktop Publishing  
 Web Design & Multimedia Applications  
 Accounting  
 Marketing Principles\*  
 Advertising & Sales\*  
 Business Communications\*  
 Entrepreneurship\*

### Professional Sales/Merchandising

Computer Applications  
 Desktop Publishing  
 Web Design & Multimedia Applications  
 Accounting  
 Marketing Principles\*  
 Advertising & Sales\*  
 Business Communications\*  
 Entrepreneurship\*



## STEM

*Planning, managing, and providing scientific research and professional and technical services (e.g. physical science, social science, engineering), including laboratory and testing services, and research and development services.*

### RECOMMENDED COURSES BY PATHWAY

# Science, Technology, Engineering, Math

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Interpret formulas
- ◆ Find answers to questions
- ◆ Work in a laboratory
- ◆ Figure out how things work and investigate new things
- ◆ Explore new technology
- ◆ Experiment to find the best way to do something
- ◆ Pay attention to details and help things be precise

### Personal qualities that describe me:

- ◆ Detail oriented
- ◆ Inquisitive
- ◆ Objective
- ◆ Methodical
- ◆ Mechanically inclined

### School Subjects that I like:

- ◆ Math
- ◆ Science
- ◆ Drafting/Computer Aided Drafting
- ◆ Electronics/Computer Networking
- ◆ Technical Classes/Technology Education

### PATHWAYS IN THIS CLUSTER

- ◆ Engineering & Technology
- ◆ Science & Math

#### Engineering & Technology

Computer Applications  
Desktop Publishing  
Web Design & Multimedia Applications  
Chemistry/AP Chemistry  
Calculus or AP Calculus  
Physics or AP Physics  
Biology or AP Biology  
Concepts of Engineering and Technology\*

#### Science & Math

Chemistry/AP Chemistry  
Calculus or AP Calculus  
Physics or AP Physics  
Biology or AP Biology  
Concepts of Engineering and Technology\*

\*Online Course Option

# Career Options — Science, Technology, Engineering, Math

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Statistical Clerk		
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## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Biological Technician	Veterinary Technician	Nuclear Technician
Electronics Engineering Technician	Mechanical Engineering Technician	Civil Engineering Technician
Chemical Technician	Environmental Technician	Industrial Engineering Technician
Mathematical Technician	Petroleum Technician	

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Aerospace Engineer	Civil Engineer	Mechanical Engineer
Anthropologist	Computer Engineer	Metallurgist
Archaeologist	Electrical Engineer	Mining Engineer
Astronomer	Geologist	Nuclear Engineer
Biomedical Engineer	Industrial Engineer	Physicist
Chemical Engineer	Mathematician	Solar Engineer
Statistician		

### Common Core Classes

- ◆ Algebra I & II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus
- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ Anatomy & Physiology

### Elective Courses

- ◆ World Language
- ◆ Woodworking
- ◆ Advanced Woodworking
- ◆ Metals
- ◆ Advanced Metals
- ◆ Accounting



## Transportation, Distribution & Logistics

*The planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.*

### RECOMMENDED COURSES BY PATHWAY

\*Online Course Option

# Transportation, Distribution & Logistics

## INTEREST & ABILITIES

### Activities that describe what I like to do:

- ◆ Travel
- ◆ See well and have quick reflexes
- ◆ Solve mechanical problems
- ◆ Design efficient processes
- ◆ Anticipate needs and prepare to meet them
- ◆ Drive or ride
- ◆ Move things from one place to another

### Personal qualities that describe me:

- ◆ Realistic
- ◆ Mechanical
- ◆ Coordinated
- ◆ Observant
- ◆ Planner

### School Subjects that I like:

- ◆ Math
- ◆ Trade and Industry courses
- ◆ Physical Science
- ◆ Economics
- ◆ Foreign Language

## PATHWAYS IN THIS CLUSTER

- ◆ Transportation Operations
- ◆ Logistics Planning & Management Services
- ◆ Warehousing & Distribution Center Operations
- ◆ Facility and Mobile Equipment Maintenance
- ◆ Transportation Systems/Infrastructure Planning, Management & Regulation
- ◆ Sales & Services
- ◆ Health, Safety, & Environmental Management

### Transportation Operations/Logistics Planning & Management Services/Warehousing & Distribution Center Operations/Transportation Systems/Infrastructure Planning, Management & Regulation

Algebra I & II  
 Chemistry/AP Chemistry  
 AP Government  
 AP U.S. History  
 Calculus or AP Calculus  
 CPRW  
 AP English  
 Physics or AP Physics  
 Biology or AP Biology  
 Intro to Business\*  
 Marketing Principles\*

### Sales & Services

Algebra I & II  
 Intro to Business\*  
 Marketing Principles\*  
 Computer Applications  
 Accounting  
 Personal Finance  
 Business Law\*  
 Business Leadership\*  
 Intro to Marketing & Business\*  
 Entrepreneurship\*  
 Economics\*



# Career Options — Transportation, Distribution & Logistics

## FROM HIGH SCHOOL

On-the-job training and/or minimal experience

Shipping and Receiving Clerk	Bus Driver	Deckhand
Highway Maintenance Worker	Traffic clerk	Delivery Driver
Reservation and Ticket Clerk	Light Truck Driver	Service Station Attendant

## CAREERS WITH CERTIFICATION/ASSOCIATE DEGREE

Community college, technical college, apprenticeship, experience

Aircraft Mechanic	Railroad Conductor	Auto Body Technician
Security Consultant	Automobile Painter	Travel Agent
Cartographic Technician	Flight Attendant	Diesel Technician
Motorcycle Technician		

## BACHELORS, PRE-PROFESSIONAL OR HIGHER DEGREE

Colleges/Universities

Airline Pilot	Mechanical Engineer	Air Traffic Controller
Mining Manager	Astronaut	Environmentalist
Public Health Sanitarian	Locomotive Engineer	Travel Agency Manager

### Common Core Classes

- ◆ Algebra II
- ◆ Chemistry/AP Chemistry
- ◆ AP Government
- ◆ AP U.S. History
- ◆ Calculus or AP Calculus

- ◆ CPRW
- ◆ AP English
- ◆ Physics or AP Physics
- ◆ Biology or AP Biology
- ◆ AP Economics\*

### Elective Courses

- ◆ World Language
- ◆ Woodworking

### Health, Safety & Environmental Management

Algebra I & II  
 Advanced Math  
 Physics  
 Chemistry/Honors & AP Chemistry  
 Environmental Science  
 AP English